5 SEOUENCE LISTING

<213> OrganismName : Homo sapiens

Sequence 1

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50 caagactgtg tctttcatga catcatagcc caaccatgtg agaagaagga gaaggcccc 2460 ctttcttcat taatctgaaa aaaaggaaag tgagaatagg ctgattttta aaagttaagg 2520 ggcaagcagc attgcattct gggggaacga tcctggccac agccgccaaa caaacattca 2580 ctaggcctct tctgttttca tacccttgta agtgggttat gtggtgggta tggtcagttt 2640 tttcttttt ctttttttt ctttttttt agacagagtt tcgcttttgt tgcccgggct 2700

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ctcatcatgg tcacatccag ccccacccc cggccaacta accactgcag gctcctcttc

cagactcacc agggggcctc gaggccccgg catctccctt ggccctgggt gtgggtttta

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40

45

55

1740

1800

1860

1920

1980

2040 2100

2160

2220

2280

2340

```
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                                                                            2880
      tcaggtgatc cacctgcctc agcctcccag actgttggga ttacaggcat gagccaccac
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      gcctggccag tttcttcatt ttacatatgg tcacattggc gcctagaaca gttaggtcgc
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      tcgtcacata ggcagttaag tggagaacca ggtttcaaaa tcaggtaaga aaaccatcat
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      cattaactga gcaccagctg tgctaagcct gccacgggcg tatccttgca gcctcacaac
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      tgccaccage ctgtcactcc agtggcagct ccagaaacgg aggctgttgc ttttatccct
                                                                            3300
      aaactgcatc cacagagaag ccccaagaag gaggttgggg ccagctcata aaaagcctga
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                                                                            4260
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      tctagctttc tgcttttacc tttaccctaa tctttttatt tttatgctat tgtactttat
                                                                            4500
      ttttgtaagt tgctgagata tctgttttgc aacaagatgg gctatatcta aataaagaca
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                                                                            4591
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      <211> Length : 4591
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           SequenceDescription :
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      Custom Codon
      Sequence Name : CNHG0005 full-length cDNA
45
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      <213> OrganismName : Homo sapiens
      <400> PreSequenceString :
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50
      gtcatgcaga aaagcaagag atctgggaag aactgtctcc caacatttg
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      <212> Type : DNA
      <211> Length : 109
            SequenceName : Exon 3 transcript
            SequenceDescription :
55
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87

CEN0301

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      Custom Codon
      Sequence Name : Exon 3 transcript
      Sequence 3
10
      <213> OrganismName : Homo sapiens
      <400> PreSequenceString :
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                                                                            21
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      <211> Length : 21
            SequenceName : Coding region of Exon 3
            SequenceDescription :
      Custom Codon
20
      Sequence Name : Coding region of Exon 3
      Sequence 4
25
      <213> OrganismName : Homo sapiens
      <400> PreSequenceString :
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      cattgtcagg tgctgttttg tttaagctct aactcacccc tggaatacag gggaatgatg
      acaaccagcc cagccaggcc tgactcatca tggtcacatc cagcccccac ccccggccaa
                                                                           180
30
      ctaaccactg caggeteete ttecagaete accaggggge etegaggeee eggeatetee
                                                                           240
      cttggccctg ggtgtgggtt ttacaagact gtgtctttca tgacatcata gcccaaccat
                                                                           300
      gtgagaagaa ggagaaggcc cccctttctt cattaatctg aaaaaaagga aagtgagaat
                                                                           360
      aggctgattt ttaaaagtta aggggcaagc agcattgcat tctgggggaa cgatcctggc
                                                                           420
      cacagoogco aaacaaacat toactaggoo tottotgttt toatacoott gtaagtgggt
                                                                           480
35
      540
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                                                                           600
      gcctcccggg ttcaagtgat tctcctgcct tagcctcctg aaaagctggg attacagggc
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      cctgccacca agcccagcta attgtatttt tagtagagac aggatttcac catgttggcc
                                                                           720
      aggccagtct caaactcctg acctcaggtg atccacctgc ctcagcctcc cagactgttg
                                                                           780
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      ggattacagg catgagccac cacgcctggc cagtttcttc attttacata tggtcacatt
                                                                           840
      ggcgcctaga acagttaggt cgctcgtcac ataggcagtt aagtggagaa ccaggtttca
                                                                           900
      aaatcaggta agaaaaccat catcattaac tgagcaccag ctgtgctaag cctgccacgg
                                                                           960
      gcgtatcctt gcagcctcac aacagtggga ggtctgtatc ctgaatgtcc tcattttaca
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      gatgaggaca ttgaggagaa gagacttacc caggctcaca cagcagctca gcctgttcca
                                                                          1080
45
      ggcgctggtc agtgcgtgtt ctttgccacc agcctgtcac tccagtggca gctccagaaa
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      cggaggctgt tgcttttatc cctaaactgc atccacagag aagccccaag aaggaggttg
                                                                          1200
      gggccagctc ataaaaagcc tgaatgccaa gccaaggagt ggatgcctcc agtcatattt
                                                                          1260
      agaacaaagt caagtataaa tttacagaga aaaaattcta agacagttgg atgttgtcct
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      gttggtgagg aagggaaagg tttttcttgt agggaactgg aaccagccca caactgcaca
                                                                          1380
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                                                                          1500
      ctggactgag ggggaccagg tcttcttgct gacctcgtct acaaaggcaa aggaaggcaa
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      aggaagctgt ctcgggtgtt tctgaacaac gtgactcatg aggggctttg gctacctctt
                                                                          1620
      gegtteecee tagagatgte caggeettae atttaategg etttetetge ggtggggtag
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55
      agaatggagc tcccgccttg cgggcagtgc taaaggtgga gctgggggat tttcctggga
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5
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                                                                            1860
      gagttaggga gccctgggtt ggaatccagc cccacctctt ttatgccaca ggtttggtca
                                                                            1920
      agttctctcc cgctcagggt agggctgtga actccctctt acagctaaga acatgcagct
                                                                            1980
      tagtgaggac aagaccette tagagettta eccetaatee eeeccagga geeecgagge
                                                                            2040
10
      cggcattatt cctccccatt acaggtgatg agcctcaaat tcagagagct taagcaacct
                                                                            2100
      gctcagggtc acgtctccaa caggcagtag agtcaaggta taaaccaggt ctgttttgt
                                                                            2160
      accagagtcc cagactaact gttggtagga atcttgtaac cagtcatgtt ttcttccttg
                                                                            2220
      ttttggccgc tgggaagctc aaagtcaaat tcgagaccct ttttttcca attgtgctga
                                                                            2280
      gtctcctact agactcgctt cattctagct ttctgctttt acctttaccc taatcttttt
                                                                            2340
15
      atttttatgc tattgtactt tatttttgta agttgctgag atatctgttt tgcaacaaga
                                                                            2400
      tgggctatat ctaaataaag acatgatcaa aggtttgatt taaaagtctg gact
                                                                            2454
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      <211> Length : 2454
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            SequenceDescription :
      Custom Codon
25
      Sequence Name : Exon 10 transcript
      Sequence 5
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      <400> PreSequenceString :
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      cattgtcagg tgctgttttg tttaagctct aactcacccc tggaatacag gggaatgatg
                                                                             120
      acaaccagec cagecaggec tgacteatea tggteacate cagececeae ecceggecaa
                                                                             180
      ctaaccactg caggeteete ttecagaete accaggggge etegaggeee eggeatetee
                                                                             240
35
      cttggccctg ggtgtgggtt ttacaagact gtgtctttca tgacatcata g
                                                                             291
      <212> Type : DNA
      <211> Length : 291
            SequenceName : Coding region of Exon 10
40
            SequenceDescription :
      Custom Codon
      Sequence Name : Coding region of Exon 10
45
      Sequence 6
      <213> OrganismName : Homo sapiens
      <400> PreSequenceString :
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      aaggagcggt tcaagggaga gtatcaactc acatgggcct tgaaggccac gcactgccta
                                                                            120
      gcagcaactc actggagccc ctcttgcccc ccgcaacagg tgtttgggga cctggaccag
                                                                            180
      gtgaggatga cctcggaggg ctccgactgc cgttgcaagt gcatcatgcg gcccctgagc
                                                                            240
      aaggacgcgt gtagccgagt gegcagtggg egggcacgeg tggaggactt ctacaeggtg
                                                                            300
55
      gagactgtga getegggeac tgactgeege tgeteetgta eegeacetee eteetetee
                                                                            360
```

```
5
                                                                             420
      aacccctgtg agaacgagtg gaagatggag aaactcaaaa agcaggcgcc cgagctcctc
      aagggctgtt cactctacag c
                                                                             441
      <212> Type : DNA
      <211> Length : 441
            SequenceName : Coding region of CNGH0005trans1
10
            SequenceDescription :
      Custom Codon
      Sequence Name : Coding region of CNGH0005trans1
15
      Sequence 7
      <213> OrganismName : Homo sapiens
      <400> PreSequenceString :
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      aaggageggt teaagggaga gtateaacte acatgggeet tgaaggeeac geactgeeta
                                                                             120
      gcagcaactc actggagccc ctcttgcccc ccgcaacagg tgtttgggga cctggaccag
                                                                             180
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      gtgaggatga cctcggaggg ctccgactgc cgttgcaagt gcatcatgcg gcccctgagc
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      aaggacgcgt gtagccgagt gcgcagtggg cgggcacgcg tggaggactt ctacacggtg
25
                                                                             360
      gagactgtga gctcgggcac tgactgccgc tgctcctgta ccgcacctcc ctcctctct
      aacccctgtg agaacgagtg gaagatggag aaactcaaaa agcaggcgcc cgagctcctc
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                                                                             720
                                                                             780
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      agtgtgcaga aaagctttgc agacagaggc ctcccaaaac ctcccaagga gaagctgctt
                                                                             840
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      ccccgcgccc tggcccagca gcaggctgtg atccggggct tcacctacta caaggcaggc
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                                                                            1080
      caactgccgc ccaaggtgga gggcaggtcc aactccgcag agcccaactc cgcagagcag
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                                                                            1380
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                                                                            1500
45
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      tectgggege tgetgeeega egtggtatat gaggacacea cacettggaa gtggegegga
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      cacteggaca ttgactttgc egtggacgag ageggeetgt gggtcateta cecegeegtg
      gacgaccgcg atgaggccca gcccgaggtg atcgtcctga gtcgcttgga ccccggcgat
                                                                            1740
      ctctccgtgc accgggagac cacgtggaag acacggctgc ggcggaactc ctacgggaac
                                                                            1800
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      tgcttcctgg tgtgcggcat cctgtatgcc gtggacacgt acaaccagca ggaaggccag
                                                                            1860
      gtegectacg etttegacae geacaeggge acegaegeae geececaget geegtteete
                                                                            1920
      aacgagcacg cctacaccac ccagatcgac tacaacccca aggagcgggt gctgtacgcc
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                                                                            2025
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55
      <211> Length : 2025
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5
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            SequenceDescription :
      Custom Codon
10
      Sequence Name : Coding region of CNGH0005trans2
      Sequence 8
      <213> OrganismName : Homo sapiens
15
      <400> PreSequenceString :
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                                                                             120
      aaggageggt teaagggaga gtateaacte acatgggeet tgaaggeeac geactgeeta
      geageaacte actggagece ctettgeece eegeaacagg tgtttgggga eetggaecag
                                                                             180
      gtgaggatga cctcggaggg ctccgactgc cgttgcaagt gcatcatgcg gcccctgagc
                                                                             240
20
      aaggacgcgt gtagccgagt gcgcagtggg cgggcacgcg tggaggactt ctacacggtg
                                                                             300
                                                                             360
      gagactgtga gctcgggcac tgactgccgc tgctcctgta ccgcacctcc ctcctctct
      aacccctgtg agaacgagtg gaagatggag aaactcaaaa agcaggcgcc cgagctcctc
                                                                             420
                                                                             480
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      gtgcacgcct acgtccacaa ggtggcctcc cagatgaaca cactggaaga gagcatcaag
                                                                             540
25
      gccaacctga gccgggagaa tgaggtggtg aaggacagcg tgcgccacct cagtgagcag
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      ttgaggcact atgagaatca ctctgccatc atgctgggca tcaagaagga gctgtcccgc
                                                                             660
      etgggeetee agetgetgea gaaggatgee geegeegeee etgeeaeeee tgeeaeggge
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                                                                             780
      actggtagca aggcccaggg catgagccac tgcgcctggc cagcaaatgc tttttgtgca
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      gaatacaggg gaatgatgac aaccagccca gccaggcctg actcatcatg gtcacatcca
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      gececeaece eeggeeaact aaceaetgea ggeteetett eeagaeteae eagggggeet
                                                                             960
      cgaggccccg gcatctccct tggccctggg tgtgggtttt acaagactgt gtctttcatg
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                                                                            1026
      acatca
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35
      <211> Length : 1026
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            SequenceDescription :
      Custom Codon
40
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      Sequence Name : Coding region of CNGH0005trans3
      Sequence 9
45
      <213> OrganismName : Homo sapiens
      <400> PreSequenceString :
      atggcatatg caaaagccct gaggctgcag tggagagagc cattgaaagg gaagggcaat
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      aaggageggt teaagggaga gtateaacte acatgggeet tgaaggeeac geactgeeta
                                                                             120
      gcagcaactc actggagccc ctcttgcccc ccgcaacagg tgtttgggga cctggaccag
                                                                             180
50
                                                                             240
      gtgaggatga ceteggaggg etcegaetge egttgeaagt geateatgeg geecetgage
      aaggacgcgt gtagccgagt gcgcagtggg cgggcacgcg tggaggactt ctacacggtg
                                                                             300
      gagactgtga gctcgggcac tgactgccgc tgctcctgta ccgcacctcc ctcctctct
                                                                             360
      aacccctgtg agaacgagtg gaagatggag aaactcaaaa agcaggcgcc cgagctcctc
                                                                             420
      aagggetgtt cactetacag etagatgget cageacagag acagteagtg cetetgeacg
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55
      caagtcatgc agaaaagcaa gagatctggg aagaactgtc tcccaacatt tg
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      <211> Length : 532
            SequenceName : Transcript of CNGH0005trans1
            SequenceDescription :
10
      Custom Codon
      Sequence Name : Transcript of CNGH0005trans1
15
      Sequence 10
      <213> OrganismName : Homo sapiens
      <400> PreSequenceString :
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      aaggagcggt tcaagggaga gtatcaactc acatgggcct tgaaggccac gcactgccta
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      gcagcaactc actggagccc ctcttgcccc ccgcaacagg tgtttgggga cctggaccag
                                                                             180
      gtgaggatga cctcggaggg ctccgactgc cgttgcaagt gcatcatgcg gcccctgagc
                                                                             240
      aaggacgcgt gtagccgagt gcgcagtggg cgggcacgcg tggaggactt ctacacggtg
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      gagactgtga gctcgggcac tgactgccgc tgctcctgta ccgcacctcc ctcctctct
                                                                             360
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      aacccctgtg agaacgagtg gaagatggag aaactcaaaa agcaggcgcc cgagctcctc
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      aagctgcagt ccatggtgga tctcctggag ggcaccctgt acagcatgga cttgatgaag
                                                                             480
      gtgcacgcct acgtccacaa ggtggcctcc cagatgaaca cactggaaga gagcatcaag
                                                                             540
      gccaacctga gccgggagaa tgaggtggtg aaggacagcg tgcgccacct cagtgagcag
                                                                             600
      ttgaggcact atgagaatca ctctgccatc atgctgggca tcaagaagga gctgtcccgc
                                                                             660
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      ctgggcctcc agctgctgca gaaggatgcc gccgccgccc ctgccacccc tgccacgggc
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      actggtagca aggcccagga cacagctaga ggaaaaggca aggacatcag caagtatggc
                                                                             780
      agtgtgcaga aaagetttge agacagagge eteccaaaae eteccaagga gaagetgett
                                                                             840
      caggtggaga agctgagaaa ggagagcggc aagggcagtt tcctccagcc cacagccaag
                                                                             900
      ccccgcgccc tggcccagca gcaggctgtg atccggggct tcacctacta caaggcaggc
                                                                             960
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      caactgccgc ccaaggtgga gggcaggtcc aactccgcag agcccaactc cgcagagcag
                                                                            1080
      gatgaggctg agcccaggtc ctccgagcga gtggacctgg cttctggcac ccccacttca
                                                                            1140
      attectgeea ceaceaceae egecaceaee acceeaaeee ceaceaeeag teteetgeee
                                                                            1200
      accgagecae etteaggtee agaagtetee agecaaggea gagaggegag etgtgaggge
                                                                            1260
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      acceteeggg etgtggaeee eeetgtgagg eaccaeaget atgggegeea egagggagee
                                                                            1320
      tggatgaagg accetgeage tegagaegae aggatetatg teaceaacta etactatgga
                                                                            1380
      aacagcctgg tggagttccg caacctggaa aacttcaagc aaggccgctg gagtaacatg
                                                                            1440
      tacaagctac cctacaactg gatcggcaca ggccacgtgg tgtaccaggg cgccttctac
                                                                            1500
      tacaaccgcg ccttcaccaa gaacatcatc aagtacgacc tacggcagcg cttcgtggcc
                                                                            1560
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      tectgggege tgetgeeega egtggtatat gaggacacca cacettggaa gtggegegga
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      cacteggaca ttgactttgc cgtggacgag ageggeetgt gggteateta eccegeegtg
                                                                            1680
      gacgaccgcg atgaggcca gcccgaggtg atcgtcctga gtcgcttgga ccccggcgat
                                                                            1740
      ctctccgtgc accgggagac cacgtggaag acacggctgc ggcggaactc ctacgggaac
                                                                            1800
      tgcttcctgg tgtgcggcat cctgtatgcc gtggacacgt acaaccagca ggaaggccag
                                                                            1860
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      gtcgcctacg ctttcgacac gcacacgggc accgacgcac gccccagct gccgttcctc
                                                                            1920
      aacgagcacg cctacaccac ccagatcgac tacaacccca aggagcgggt gctgtacgcc
                                                                            1980
      tgggacaatg gccaccagct cacctacacc ctccacttcg tggtctga
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      <211> Length : 2028
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aaaggcaaag gaaggcaaag gaagctgtct cgggtgtttc tgaacaacgt gactcatgag

gggctttggc tacctcttgc gttcccccta gagatgtcca ggccttacat ttaatcggct

ttetetgegg tggggtagag aatggagete eegeettgeg ggeagtgeta aaggtggage

55

2340 2400

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5
      tgggggattt tcctgggaat gatttgaggg ctcttgaaag cccatgtgtt ccaaagcgtc
                                                                            2520
      tttaactctg ggatagcatt ggaagccgct gtcatgacag gacatggcac tggatggctg
                                                                            2580
      gcagagagcc ctggctggga gttagggagc cctgggttgg aatccagccc cacctctttt
                                                                           2640
      atgccacagg tttggtcaag ttctctcccg ctcagggtag ggctgtgaac tccctcttac
                                                                           2700
      agctaagaac atgcagctta gtgaggacaa gaccetteta gagetttace ectaateece
                                                                           2760
10
      ccccaggagc cccgaggccg gcattattcc tccccattac aggtgatgag cctcaaattc
                                                                            2820
      agagagetta ageaacetge teagggteae gtetecaaea ggeagtagag teaaggtata
                                                                           2880
      aaccaggtct gtttttgtac cagagtccca gactaactgt tggtaggaat cttgtaacca
                                                                           2940
      gtcatgtttt cttccttgtt ttggccgctg ggaagctcaa agtcaaattc gagacccttt
                                                                           3000
      tttttccaat tgtgctgagt ctcctactag actcgcttca ttctagcttt ctgcttttac
                                                                           3060
15
      ctttacccta atcttttat ttttatgcta ttgtacttta tttttgtaag ttgctgagat
                                                                           3120
      atctgttttg caacaagatg ggctatatct aaataaagac atgatcaaag gtttgattta
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      aaagtctgga ct
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      <212> Type : DNA
      <211> Length : 3192
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            SequenceName : Transcript of CNGH0005trans3
            SequenceDescription :
      Custom Codon
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      Sequence Name : Transcript of CNGH0005trans3
      Sequence 12
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      <213> OrganismName : Homo sapiens
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      <400> PreSequenceString :
      GCSLYS
      <212> Type : PRT
      <211> Length : 6
            SequenceName : Amino acid of Exon 3
35
            SequenceDescription :
      Sequence 13
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      <213> OrganismName : Homo sapiens
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      <400> PreSequenceString :
      GMSHCAWPAN AFCAEYTSFR HCOVLFCLSS NSPLEYRGMM TTSPARPDSS WSHPAPTPGO
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      LTTAGSSSRL TRGPRGPGIS LGPGCGFYKT VSFMTS
                                                                              96
      <212> Type : PRT
      <211> Length : 96
45
            SequenceName : Amino Acid Seq of Exon 10
            SequenceDescription :
      Sequence 14
      _____
50
      <213> OrganismName : Homo sapiens
      <400> PreSequenceString :
      MAYAKALRLQ WREPLKGKGN KERFKGEYQL TWALKATHCL AATHWSPSCP PQQVFGDLDQ
                                                                             60
      VRMTSEGSDC RCKCIMRPLS KDACSRVRSG RARVEDFYTV ETVSSGTDCR CSCTAPPSSL
                                                                            120
      NPCENEWKME KLKKQAPELL KGCSLYS
                                                                            147
55
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5
      <211> Length : 147
            SequenceName : Amino Acid Seq of CNGH0005trans1
            SequenceDescription :
      Sequence 15
10
      <213> OrganismName : Homo sapiens
      <400> PreSequenceString :
      MAYAKALRLQ WREPLKGKGN KERFKGEYQL TWALKATHCL AATHWSPSCP PQQVFGDLDQ
                                                                              60
      VRMTSEGSDC RCKCIMRPLS KDACSRVRSG RARVEDFYTV ETVSSGTDCR CSCTAPPSSL
                                                                             120
15
      NPCENEWKME KLKKQAPELL KLQSMVDLLE GTLYSMDLMK VHAYVHKVAS QMNTLEESIK
                                                                             180
      ANLSRENEVV KDSVRHLSEQ LRHYENHSAI MLGIKKELSR LGLQLLQKDA AAAPATPATG
                                                                             240
      TGSKAQDTAR GKGKDISKYG SVQKSFADRG LPKPPKEKLL QVEKLRKESG KGSFLQPTAK
                                                                             300
      PRALAQQQAV IRGFTYYKAG KQEVTEAVAD NTLQGTSWLE QLPPKVEGRS NSAEPNSAEQ
                                                                             360
      DEAEPRSSER VDLASGTPTS IPATTTTATT TPTPTTSLLP TEPPSGPEVS SQGREASCEG
                                                                             420
20
      TLRAVDPPVR HHSYGRHEGA WMKDPAARDD RIYVTNYYYG NSLVEFRNLE NFKQGRWSNM
                                                                             480
      YKLPYNWIGT GHVVYQGAFY YNRAFTKNII KYDLRQRFVA SWALLPDVVY EDTTPWKWRG
                                                                             540
      HSDIDFAVDE SGLWVIYPAV DDRDEAQPEV IVLSRLDPGD LSVHRETTWK TRLRRNSYGN
                                                                             600
      CFLVCGILYA VDTYNQQEGQ VAYAFDTHTG TDARPQLPFL NEHAYTTQID YNPKERVLYA
                                                                             660
      WDNGHQLTYT LHFVV
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      <212> Type : PRT
      <211> Length : 675
            SequenceName : Amino Acid Seq of CNGH0005trans2
            SequenceDescription :
30
      Sequence 16
      <213> OrganismName : Homo sapiens
      <400> PreSequenceString :
35
      MAYAKALRLQ WREPLKGKGN KERFKGEYQL TWALKATHCL AATHWSPSCP PQQVFGDLDQ
                                                                              60
      VRMTSEGSDC RCKCIMRPLS KDACSRVRSG RARVEDFYTV ETVSSGTDCR CSCTAPPSSL
                                                                             120
      NPCENEWKME KLKKQAPELL KLQSMVDLLE GTLYSMDLMK VHAYVHKVAS QMNTLEESIK
                                                                             180
      ANLSRENEVV KDSVRHLSEQ LRHYENHSAI MLGIKKELSR LGLQLLQKDA AAAPATPATG
                                                                             240
      TGSKAQGMSH CAWPANAFCA EYTSFRHCQV LFCLSSNSPL EYRGMMTTSP ARPDSSWSHP
                                                                             300
40
      APTPGQLTTA GSSSRLTRGP RGPGISLGPG CGFYKTVSFM TS
                                                                             342
      <212> Type : PRT
      <211> Length : 342
            SequenceName : Amino Acid Seq of CNGH0005trans3
            SequenceDescription :
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